ORDER NO. AD9802034C2

Service Manual

Mini Cassette

*1 DOLBY SYSTEM

Stereo Cassette Player

RQ-SX75

Colour
(S) ..... Silver Type
(N) ..... Gold Type

Areas
(E) ..... Europe.
(EB) ..... Great Britain.

*1 Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

AR10 Mechanism Series

Specifications

CASSETTE PLAYER

Track system: 4 track, 2 channel, stereo
Frequency Range
(Normal/High/Metal): 40 ~ 18,000 Hz (– 6 dB)
Recharging time: About 2 hours
Motor: Electrical governor motor
Tape Speed: 4.8 cm/s

GENERAL

Output jack: PHONES; 50 Ω
Power Output: 2.5 mW + 2.5 mW (RMS...max.)
Power Requirement:
Rechargeable Battery; DC 1.2 V (included Rechargeable Battery)
Battery; DC 1.5 V (one R6/LR6, AA,UM-3 battery)
Dimensions (W×H×D): 75.8×108.6×20.9 mm
Weight: 171 g (with rechargeable battery)

CHARGER

Input:
For (E) area; AC 230 V, 50 Hz, 4 W
For (EB) area; AC 230–240 V, 50 Hz, 4 W
Output;
For (E) area; DC 1.2 V, 340 mA
For (EB) area; DC 1.2 V, 350 mA

Playing time:
(When used in hold mode, at 25 °C and on flat stable surface,)

Battery(-ies)	Tape playback
Rechargeable battery *2	About 16 hours
Panasonic alkaline battery	About 54 hours
Rechargeable battery *2 and Panasonic alkaline battery	About 70 hours

*2 When the included rechargeable battery is fully recharged (2 hours required).
- The play time may be less depending on the operating conditions.

Note: Design and specifications are subject to change without notice. Weight and dimensions are approximate.

⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Basic Operations

Press.

Press and hold.

During playback

In the stop mode

Batteries

- Use only the included charger when recharging.
- Normally 2 hours recharging will give about 16 hours tape playback (at 25°C).
- The rechargeable battery can be recharged about 300 times. When its operation time becomes extremely shortened, that's time for replacing it.
- To extend the playback time, install both types (rechargeable and dry cell) of battery.

Notice about rechargeable battery
The battery is designated recyclable.
Please follow your local recycling regulations.

Ⓐ When the battery becomes weak

The indicators will flash.
Recharge the rechargeable battery or replace the dry cell battery with a new one.

Changing the tone

NOR: Normal sound.
S-XBS: Boosts the low frequency range.
- If sound distortion occurs, turn down the volume.

TRAIN: Cuts down the audible level of sound which may disturb those around you.

Cautions

- Insert the batteries in the correct polarities to avoid leakage and damage to this unit.
- Remove all the batteries if the set will not be used for a long period of time.
- Do not peel off the plastic covering on the rechargeable battery.
- To avoid product damage, do not expose this product to rain, water or other liquids.
- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

Playing a tape

This unit is equipped with an auto tape select function, so you can use normal, high or metal position tapes.

1. **Insert the cassette tape.**
   Tapeslack is wound automatically when the cover is closed and playback will be ready to start from side A.
   Ⓐ Playback side
2. **Connect the stereo earphones and the remote control.**
3. **Release hold.**
4. **Press ◀ ▶ (main unit) or the main button (remote control).**
5. **Adjust the volume.**

- Do not play your headphones or earphones at high volume.
  (Before using VOLUME on the remote control, be sure to adjust VOLUME on the main unit to the "5–7" position.)

Ⓗ Illuminated remote control

Pressing any button on the remote control or the unit lights the display for about 8 seconds: this enables easy use even in darkness.
- It remains lit when winding the tape or using TPS.
- It lights for about 3 seconds if you stop the tape or change the reverse mode/ blank skip setting.

Ⓑ **To confirm the display without operation**

Ⓑ To change sides

Ⓒ To wind the tape

Ⓓ Tape Program Sensor (TPS)

You can skip as many programs as the number of times (up to 9) the button is pressed.

Ⓒ **To switch to playback**

Ⓔ DOLBY B NR

Select "DNR" to reduce noise on tapes recorded with Dolby B NR to ⅓.

> Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
> "DOLBY" and the double-D symbol ⅆⅆ are trademarks of Dolby Laboratories Licensing Corporation.

Ⓕ To select the reverse mode

BS: Blank skip function works.
⮌: Both sides of the tape are played continuously.
⮕: Both the forward and reverse sides are played through once.

Ⓖ BLANK-SKIP:

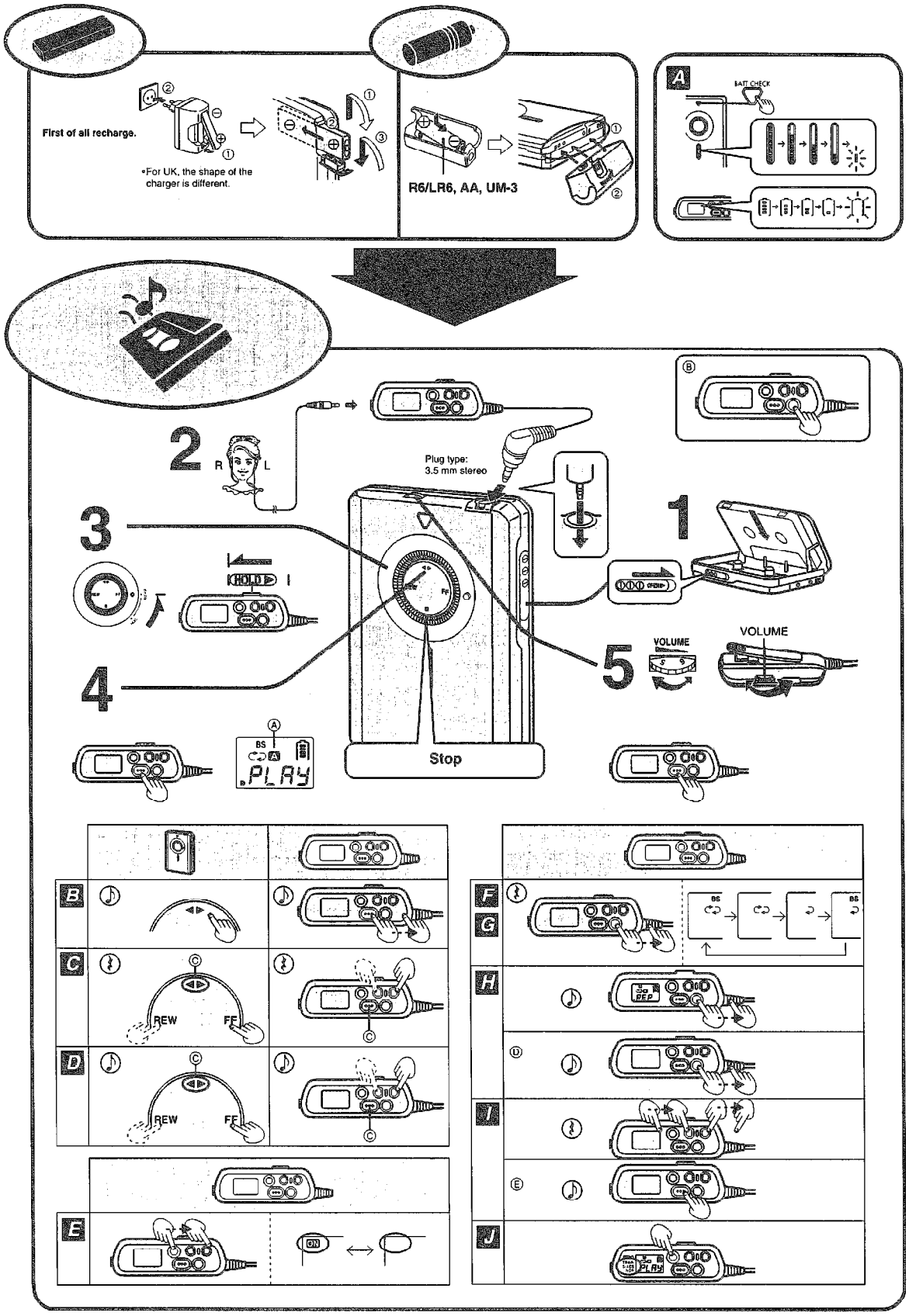
When a silent part of more than 13 seconds is detected during playback, the tape fast forwards until the next program is found. (If it is not found, play begins from the start of the opposite side.)

Ⓗ To repeat a current program (ONE-REPEAT)

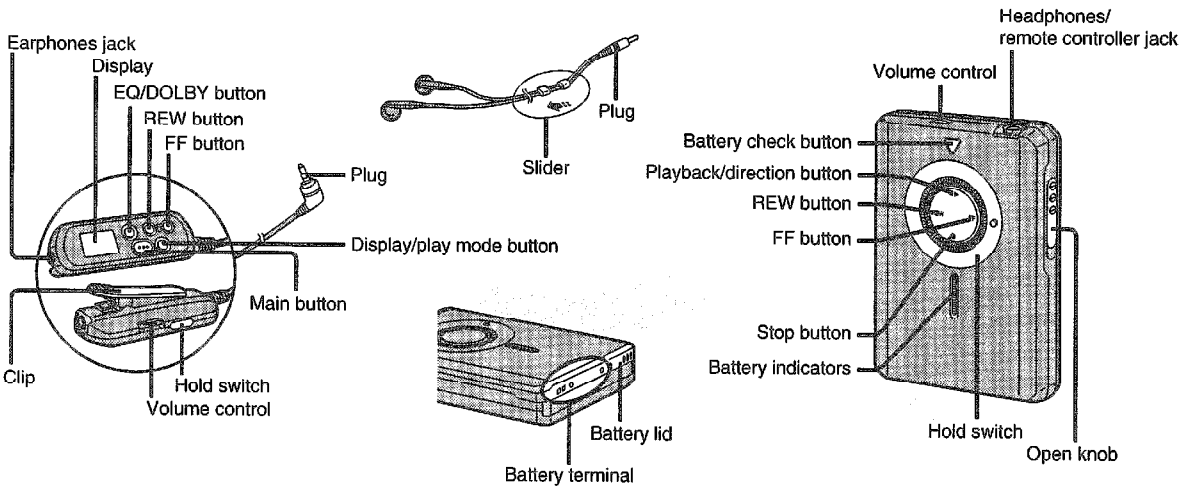
Ⓓ **To cancel ONE-REPEAT**

Ⓘ To search for a program on the tape (INTRO-SCAN)

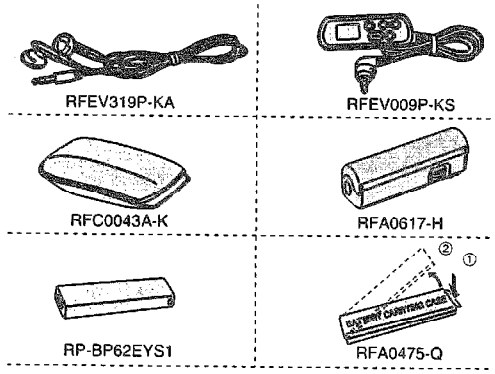
Ⓔ **When the desired program is found**


First of all recharge.
•For UK, the shape of the charger is different.
R6/LR6, AA, UM-3
A
BATT CHECK
B
2
R
L
Plug type:
3.5 mm stereo
3
HOLD
1
4
5
VOLUME
VOLUME
Stop
BS
A
PLAY
B
C
REW
FF
D
REW
FF
E
ON
F
G
BS
H
BEEP
I
J
PLAY

■ Location of Controls

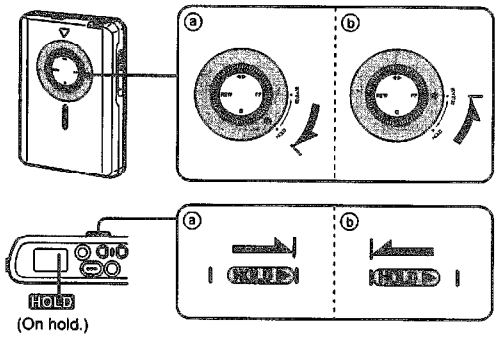


■Accessories



*Use numbers indicated when asking for replacement parts.

■Hold Function



The function prevents the unit from operating even if one of the buttons is pressed in error.

ⓐ To hold

ⓑ To release (Before operation)

*The function on the main unit and the remote control are independent of each other.

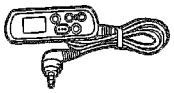
■ Service Mode

The RQ-SX75 has a Service mode designed to help identify faulty parts in the event of an error.
This mode is especially useful when servicing is carried out.

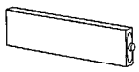
Items Required

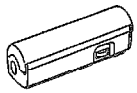
- Stereo earphones

- Remote controller



- Rechargeable battery or dry cell (R6/LR6, AA,UM-3) housed in case





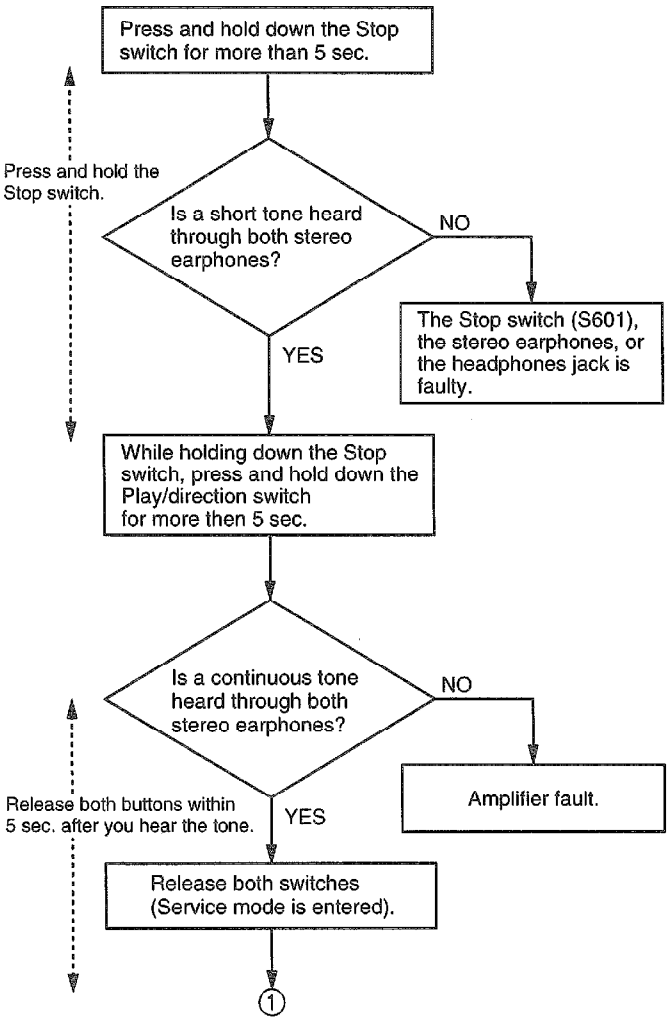
Service Mode Functions

(1) Unit and stereo earphones test ..... This checks for problems existing in the unit or stereo earphones.
(2) Remote controller test ..... After the unit and stereo earphones have passed test (1) above, this test is used to check if the remote controller is functioning normally.
(3) Amplifier test ..... This test should be run if an "amplifier failure" occurred during test (1) above.

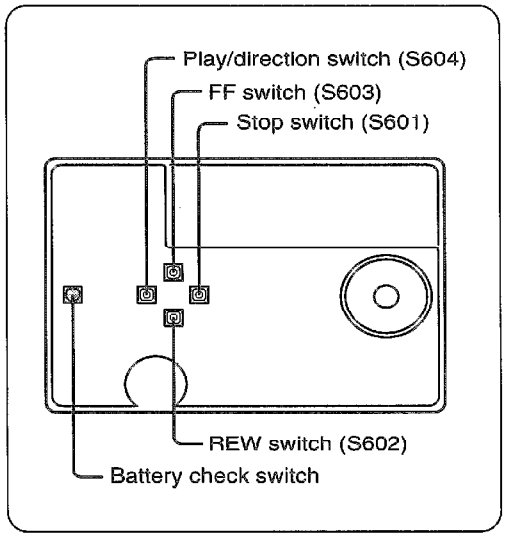
(1) Unit and Stereo Earphones Test

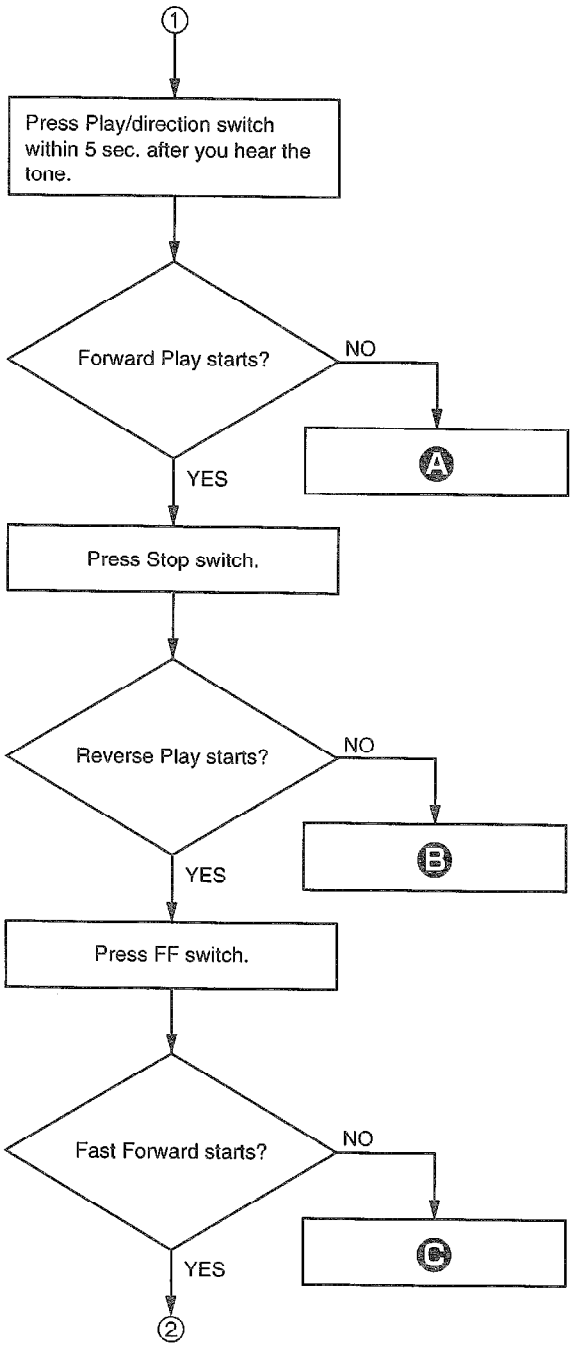
Preparations:

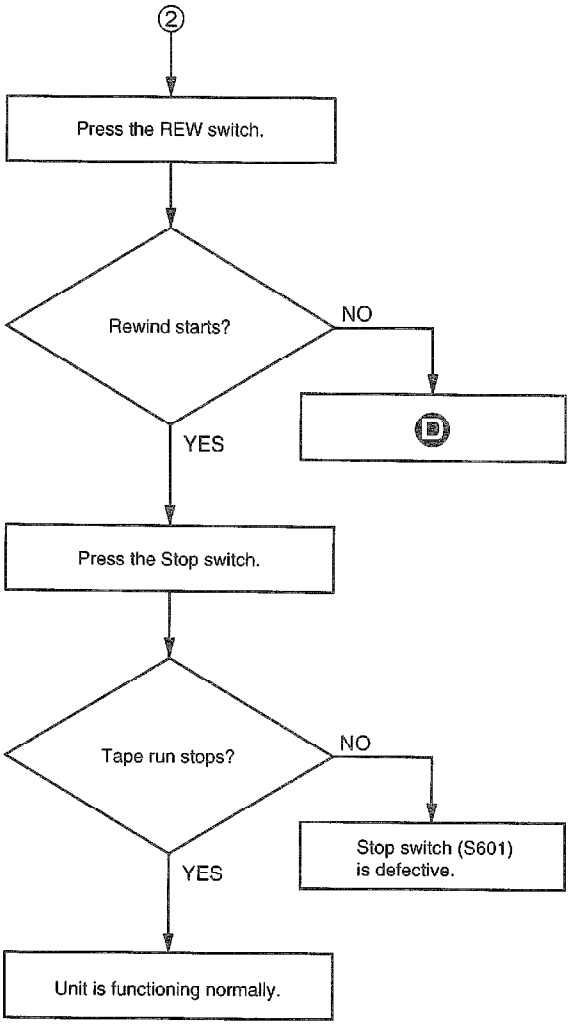
1. Remove the unit case by following Step1 through Step4 described in "Checking for the Main PCB" on page 10 .
2. Plug the stereo earphones into the headphones jack.
3. Insert a fully-charged rechargeable battery or a dry cell (R6/LR6, AA, UM-3) (housed in battery case).
4. Insert a cassette tape.


Press and hold down the Stop switch for more than 5 sec.
Press and hold the Stop switch.
Is a short tone heard through both stereo earphones?
NO
The Stop switch (S601), the stereo earphones, or the headphones jack is faulty.
YES
While holding down the Stop switch, press and hold down the Play/direction switch for more then 5 sec.
Is a continuous tone heard through both stereo earphones?
NO
Amplifier fault.
Release both buttons within 5 sec. after you hear the tone.
YES
Release both switches (Service mode is entered).
①

● Switches







Note: The unit exits Service mode when the Stop switch is pressed.

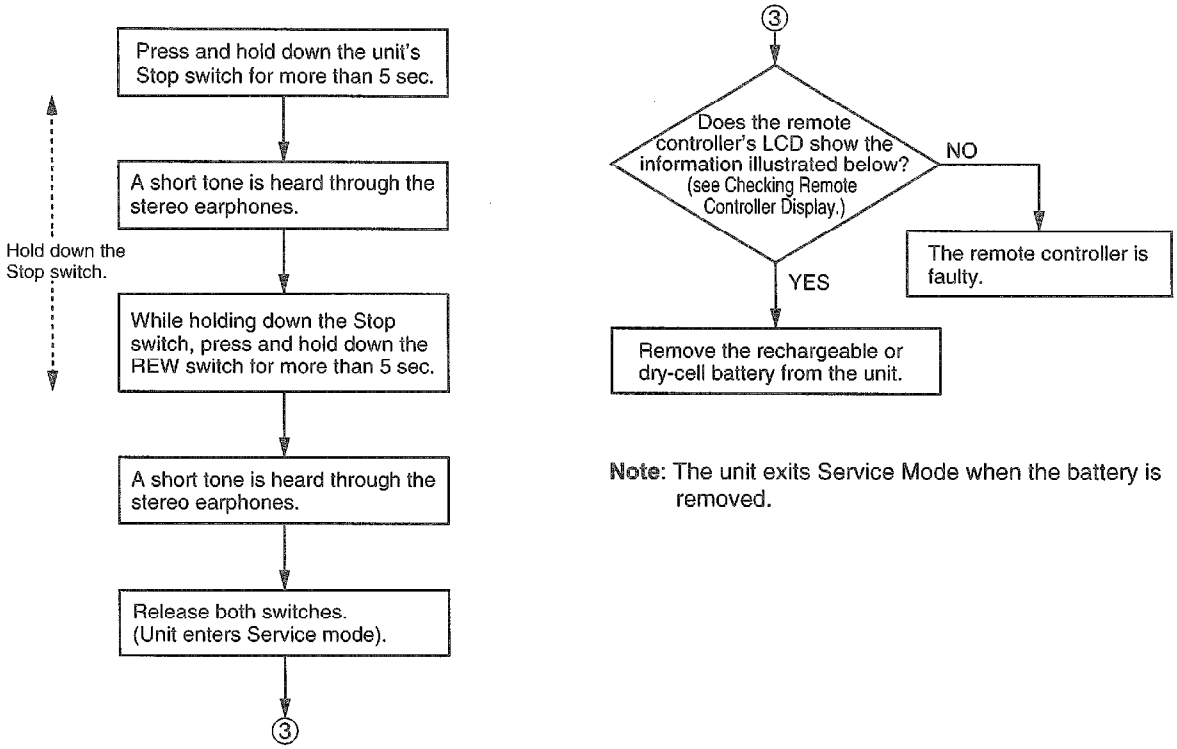
● Troubleshooting

Step	Symptom	Fault Location
Ⓐ	Playback or reverse fails if Play/direction switch is pressed.	S601, S604 or motor may be faulty.
Ⓑ		
Ⓒ	Fast Forward fails to start if FF switch is pressed.	S603 may be defective.
Ⓓ	Rewind fails to start if REW switch is pressed.	S602 may be defective.

(2) Remote Controller Test

Preparations:

1. Connect remote controller in between headphone jack and stereo earphones.
2. Remove cassette tape.
3. For other preparations, see paragraph (1).


Press and hold down the unit's Stop switch for more than 5 sec.
A short tone is heard through the stereo earphones.
Hold down the Stop switch.
While holding down the Stop switch, press and hold down the REW switch for more than 5 sec.
A short tone is heard through the stereo earphones.
Release both switches. (Unit enters Service mode).
③
③
Does the remote controller's LCD show the information illustrated below? (see Checking Remote Controller Display.)
NO
YES
The remote controller is faulty.
Remove the rechargeable or dry-cell battery from the unit.

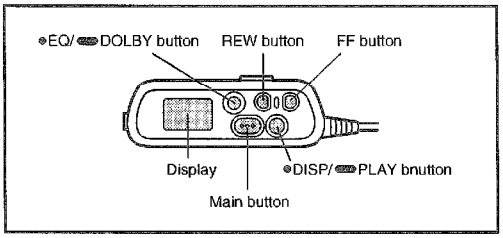
Note: The unit exits Service Mode when the battery is removed.

● Checking remote controller Display

Note * : The remote controller display will be turned off if no button is pressed for 5 sec.

Remote controller operations	Enter Service Mode. → (* In 5 sec.) Press the Main button. → (* In 5 sec.) Press the FF button. → (* In 5 sec.) Press the REW button. → (* In 5 sec.) Press the • EQ/ ▬ DOLBY NR button.
Remote controller display information	Display glows in blue while letters "PLAY" scroll from right to left. / Display glows in blue. / Display glows in blue. / Display glows in blue, while letters "PLAY" scroll from right to left. / Display glows in blue.

● Remote controller Features

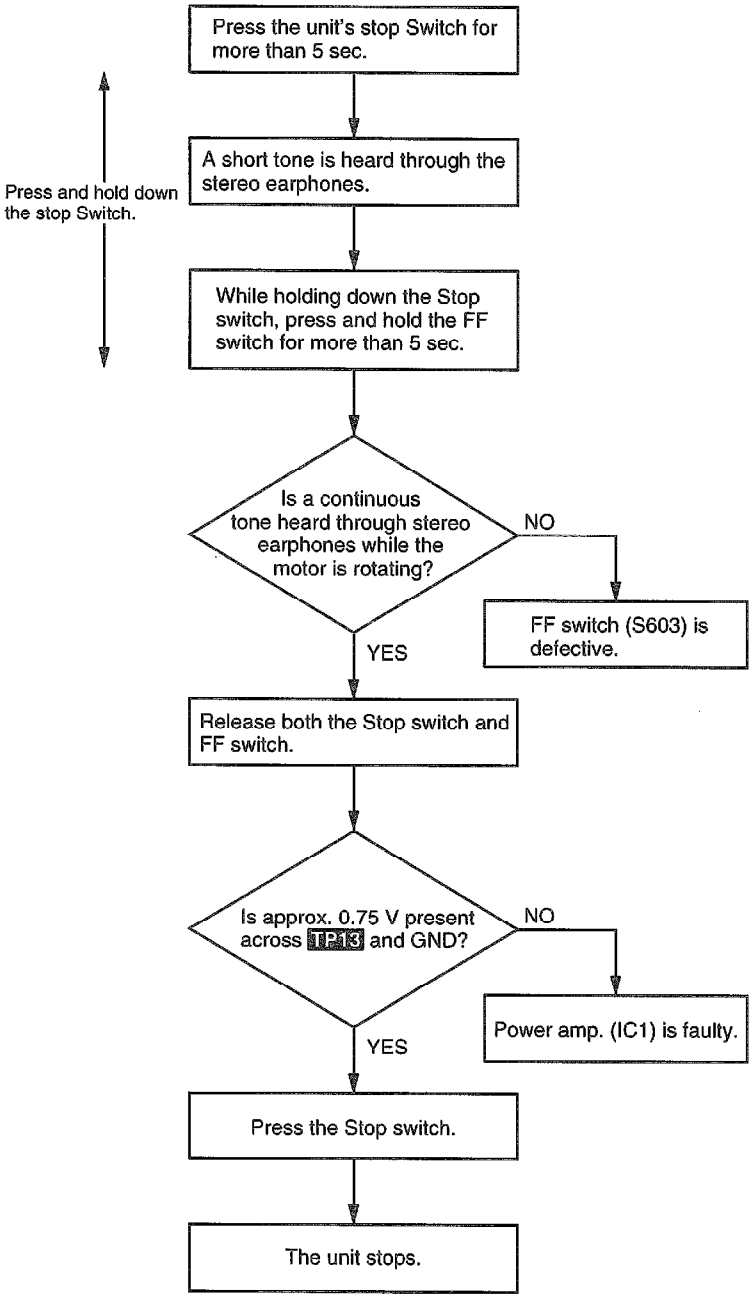


● The remote controller is functioning normally if the display appears as illustrated above.

(3) Amplifier Test

This test is required if the amplifier is found to be malfunctioning through (1) Unit and Stereo Earphones Test.

Preparations: See (1) Unit and Stereo Earphones Test.


Press the unit's stop Switch for more than 5 sec.
A short tone is heard through the stereo earphones.
Press and hold down the stop Switch.
While holding down the Stop switch, press and hold the FF switch for more than 5 sec.
Is a continuous tone heard through stereo earphones while the motor is rotating?
NO
FF switch (S603) is defective.
YES
Release both the Stop switch and FF switch.
Is approx. 0.75 V present across TP13 and GND?
NO
Power amp. (IC1) is faulty.
YES
Press the Stop switch.
The unit stops.

Note : The unit exits Service mode when the Stop switch is pressed.

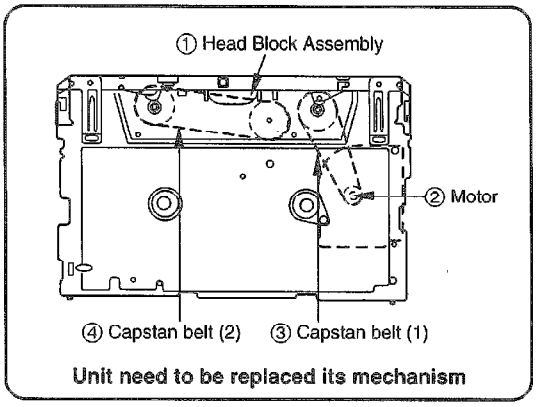
■ Mechanism Block Replacement Procedure

Replacing the Tape Transport Assembly

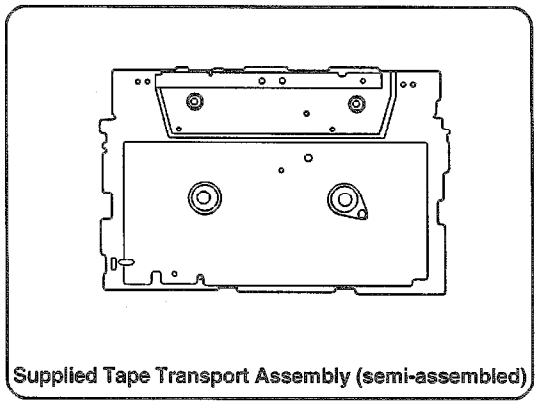
The tape transport mechanism is supplied semi-assembled.

Configuration : Tape transport mechanism excluding the head block assembly, capstan motor and capstan belts (1) and (2).

When replacing the Tape Transport Assembly, first remove the ① head block assembly, ② motor and ③ capstan belts (1) and ④ (2) from the assembly to be replaced, then install these parts (① ~ ④) onto the replacement assembly supplied. (For details of the dismantling procedure, see "Disassembly Required until Operation Test and Major Component Replacement Procedures".)



Unit need to be replaced its mechanism



Supplied Tape Transport Assembly (semi-assembled)

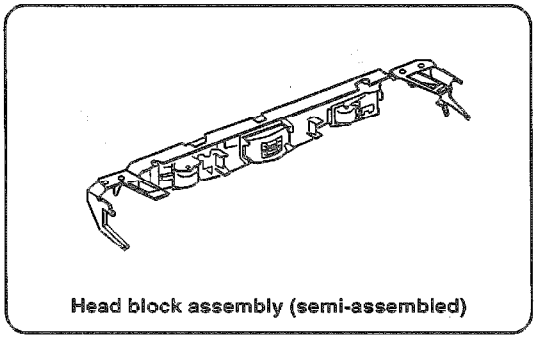
Note : After replacing, perform tape speed adjustment.

● Replacing the head block assembly

The head block assembly is supplied semi-assembled.

Configuration : Head block assembly with head arm spring and pinch roller arm assembly (F) and (R). The head arm spring and pinch roller arm assembly (F) and (R) will also be supplied separately from the head block assembly.

Note : The head block assembly requires no azimuth adjustment.



Head block assembly (semi-assembled)

Operation Checks and Main Component Replacement Procedures

NOTE

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **[ ] indicates parts No.**

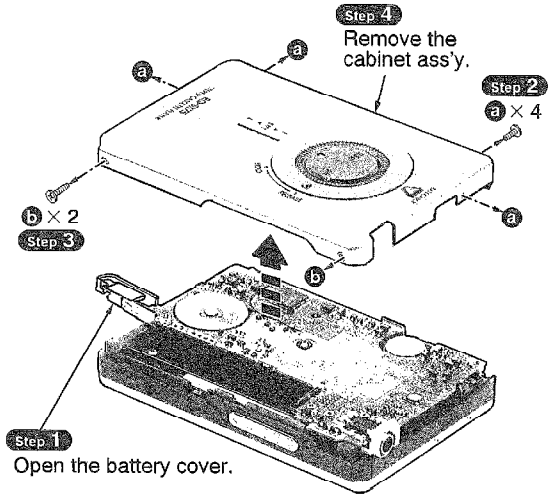
• Contents

Page.

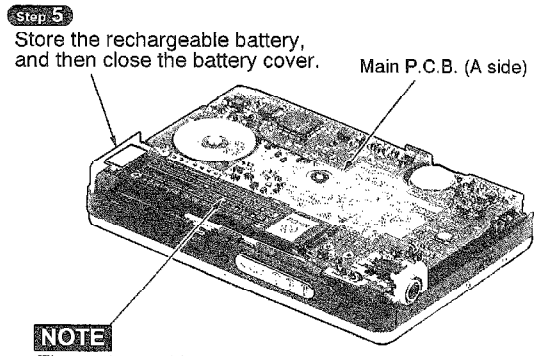
1. Checking for the main P.C.B.. ..... 10,11.
2. Replacement for the motor and capstan belt. ..... 11,12.
3. Replacement for the intermediate ornament (A), intermediate ornament (B), intermediate ornament (C) and open knob ass'y. ..... 12.
4. Replacement for the head block ass'y. ..... 13.

1. Checking for the main P.C.B.

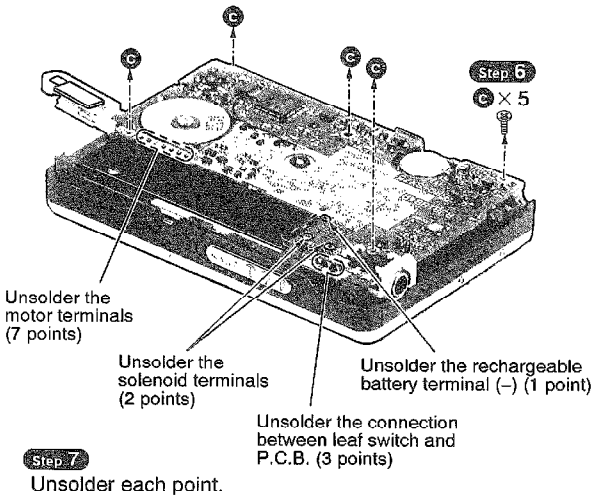
〈Checking the main P.C.B. (A side)〉

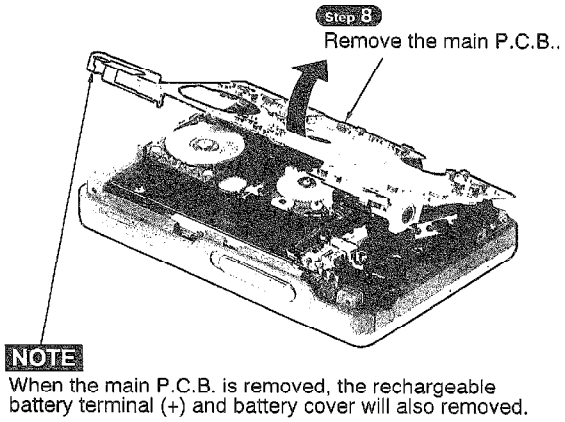


• **Check the main P.C.B. (A side) as shown below.**

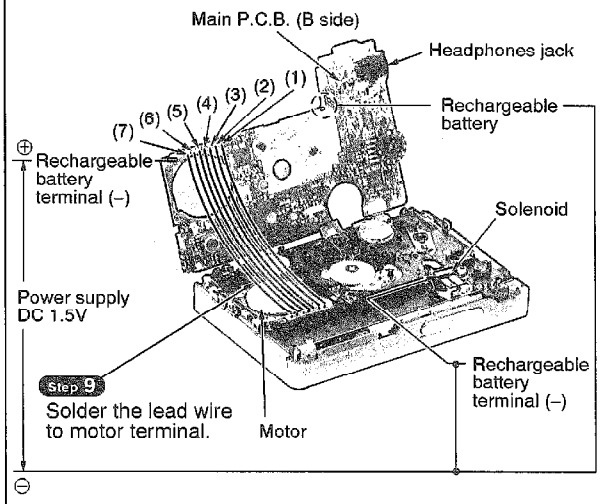

Step 5
Store the rechargeable battery, and then close the battery cover.
Main P.C.B. (A side)
NOTE
The recharged battery should be recharged fully.

〈Removal for checking the main P.C.B. (B side)〉


Step 6
ⓒ × 5
Unsolder the motor terminals (7 points)
Unsolder the solenoid terminals (2 points)
Unsolder the rechargeable battery terminal (–) (1 point)
Unsolder the connection between leaf switch and P.C.B. (3 points)
Step 7
Unsolder each point.


Step 8
Remove the main P.C.B..
NOTE
When the main P.C.B. is removed, the rechargeable battery terminal (+) and battery cover will also removed.

• **Check the main P.C.B. (B side) as shown below.**

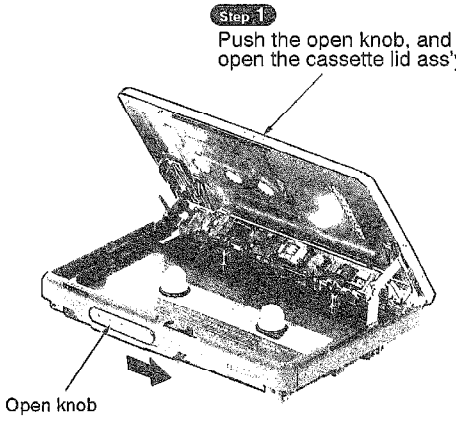


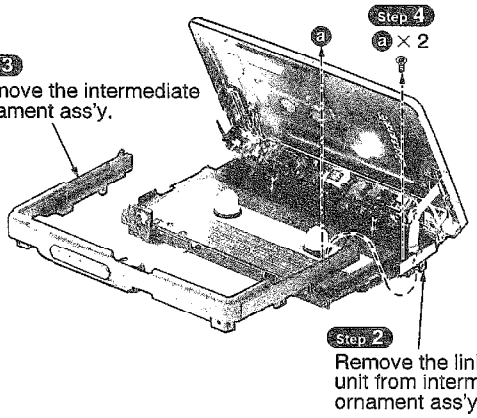
■ Operation Checks

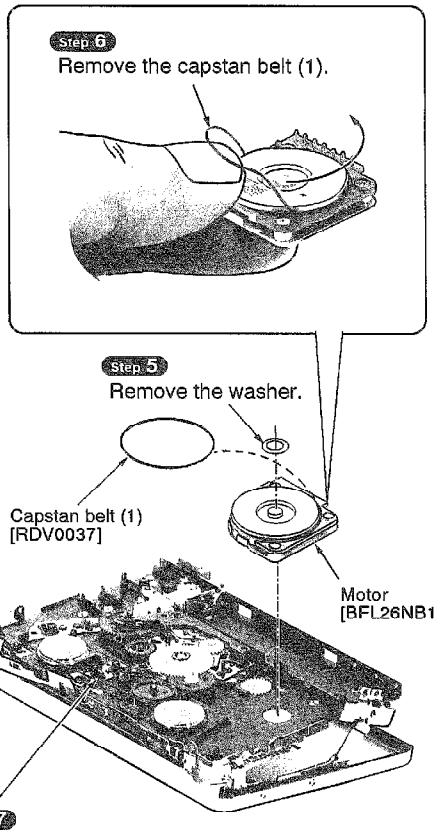
Confirm that the beeper sounds once by headphones when depressing the STOP (■) button more than 2 sec. under above condition, and then depress the STOP (■) and FWD (FF) buttons at same time more than 2 sec..
Keep the finger away from those buttons after that, so the FF mode will be operated.
When the beeper sounds by headphones, depress the PLAY/DIRECTION (◀▶) button, and then that operation will be stopped.

2. Replacement for the motor and capstan belt

• Follow Step 1 ~ Step 4 , Step 6 ~ Step 8 in item 1 on page 10.

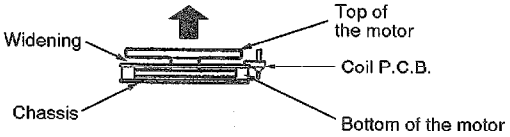


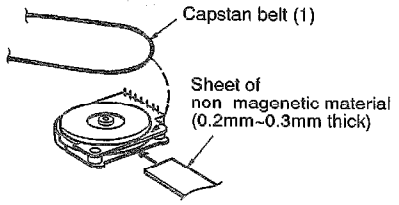


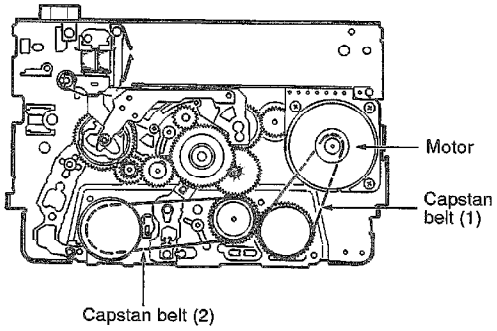


Installing the capstan belt (1)

- When install the capstan belt (1) to motor, push up the motor by insert the non–magnetic material sheet between bottom of the motor and the chassis, and install the capstan belt (1) between top of the motor and the coil P.C.B..

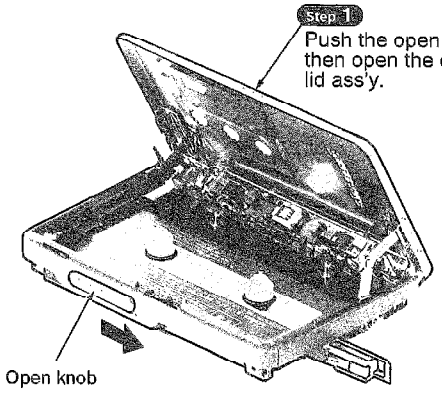


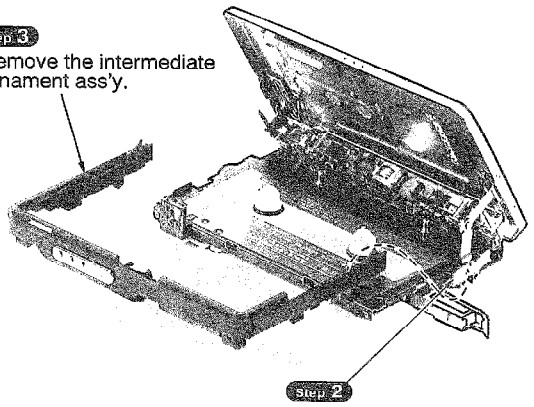


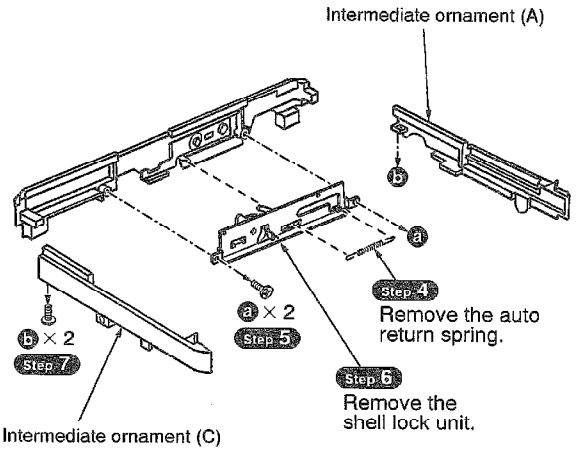


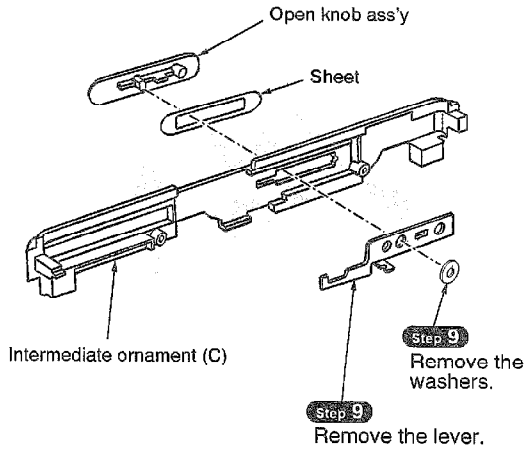
3. Replacement for the intermediate ornament (A), intermediate ornament (B), intermediate ornament (C) and open knob ass'y

- Follow Step 1 ~ Step 4 in item 1 on page 10.



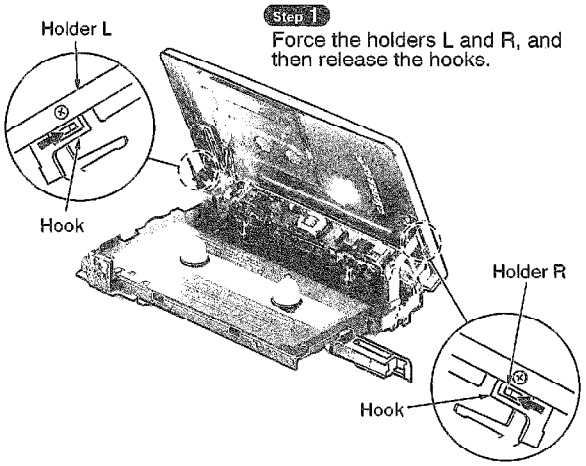




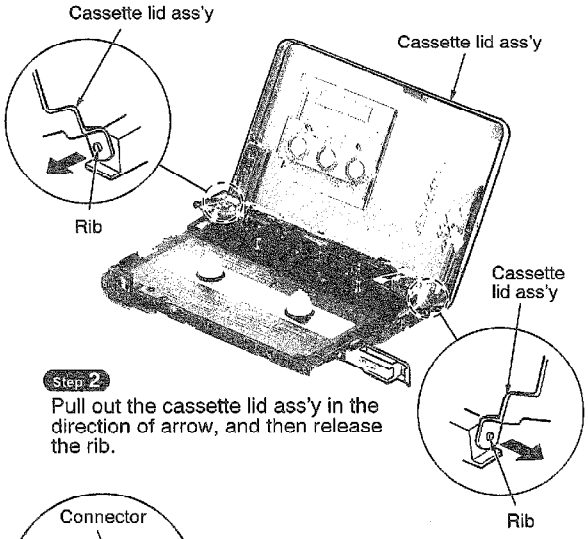


4. Replacement for the head block ass'y

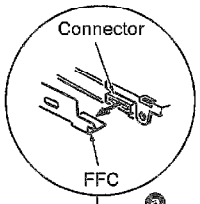
- Follow Step 1 ~ Step 4 in item 1 on page 10.
- Follow Step 1 ~ Step 3 in item 3 on page 12.



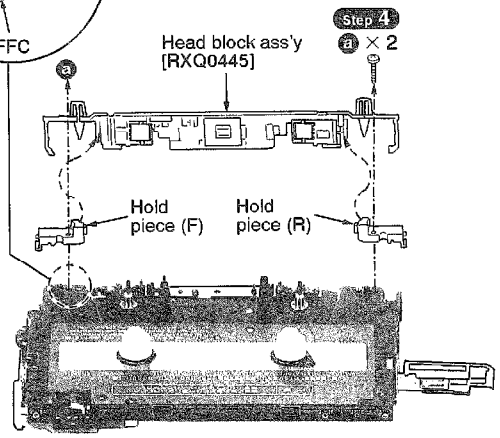
Step 1
Force the holders L and R, and then release the hooks.



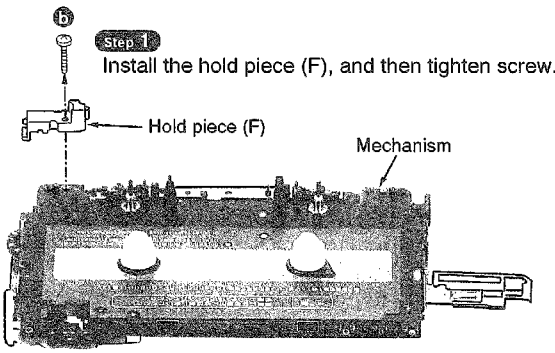
Step 2
Pull out the cassette lid ass'y in the direction of arrow, and then release the rib.



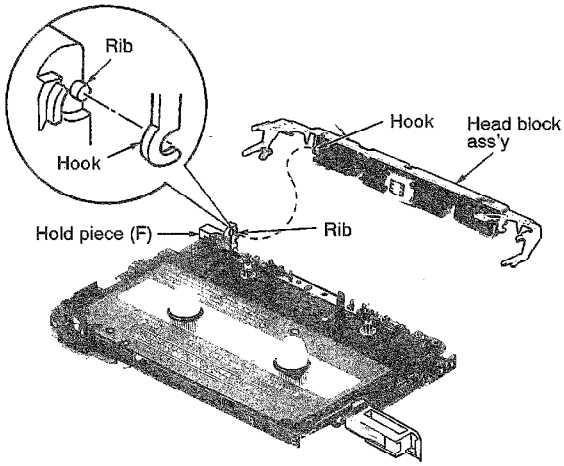
Step 3
Pull out the FFC.



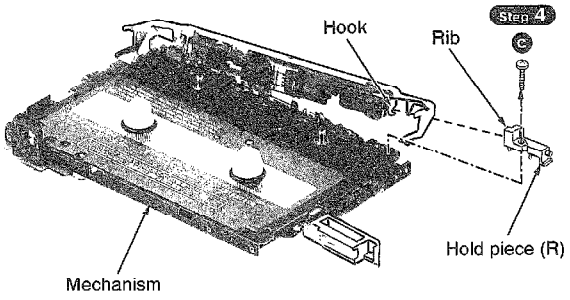
Assembly procedures for head block ass'y after replacement



Step 1
Install the hold piece (F), and then tighten screw.

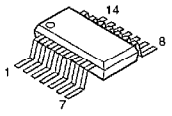


Step 3
Align the hook of head block ass'y with the rid of hold piece (R), and then install the hold piece (R) to the mechanism.

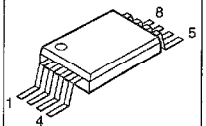


■ Type Illustration of IC's, Transistors and Diodes

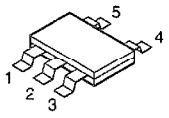
BA9750FVE1
NJM2185AVTE1



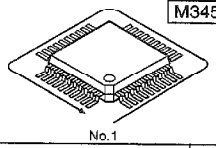
MM1305XW



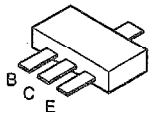
S8321DN0T2

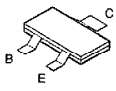


AN6647FA	32PIN
BA3632KE2	32PIN
M34561M6063F	64PIN



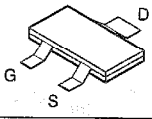
2SB1386RT100



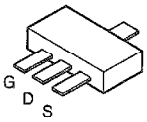


2SB1218STX UN5113TX
2SB1219RTX UN5114TX
2SB815B7TX UN5210TX
2SC4983-67TB UN5215TX
2SD1328STXRA
2SD1819STX
2SD1935-7TB
UN511MTX

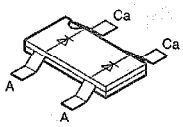
2SK1958T1
2SD2158T1



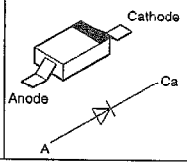
2SK2152-TD



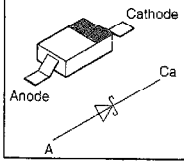
MA713TXRA



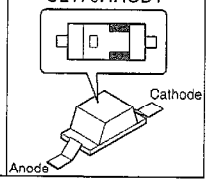
MA111TX



MA728TX



CL170HRCDT



■ Schematic Diagram

(This schematic diagram may be modified at any time with development of new technology.)

Notes:

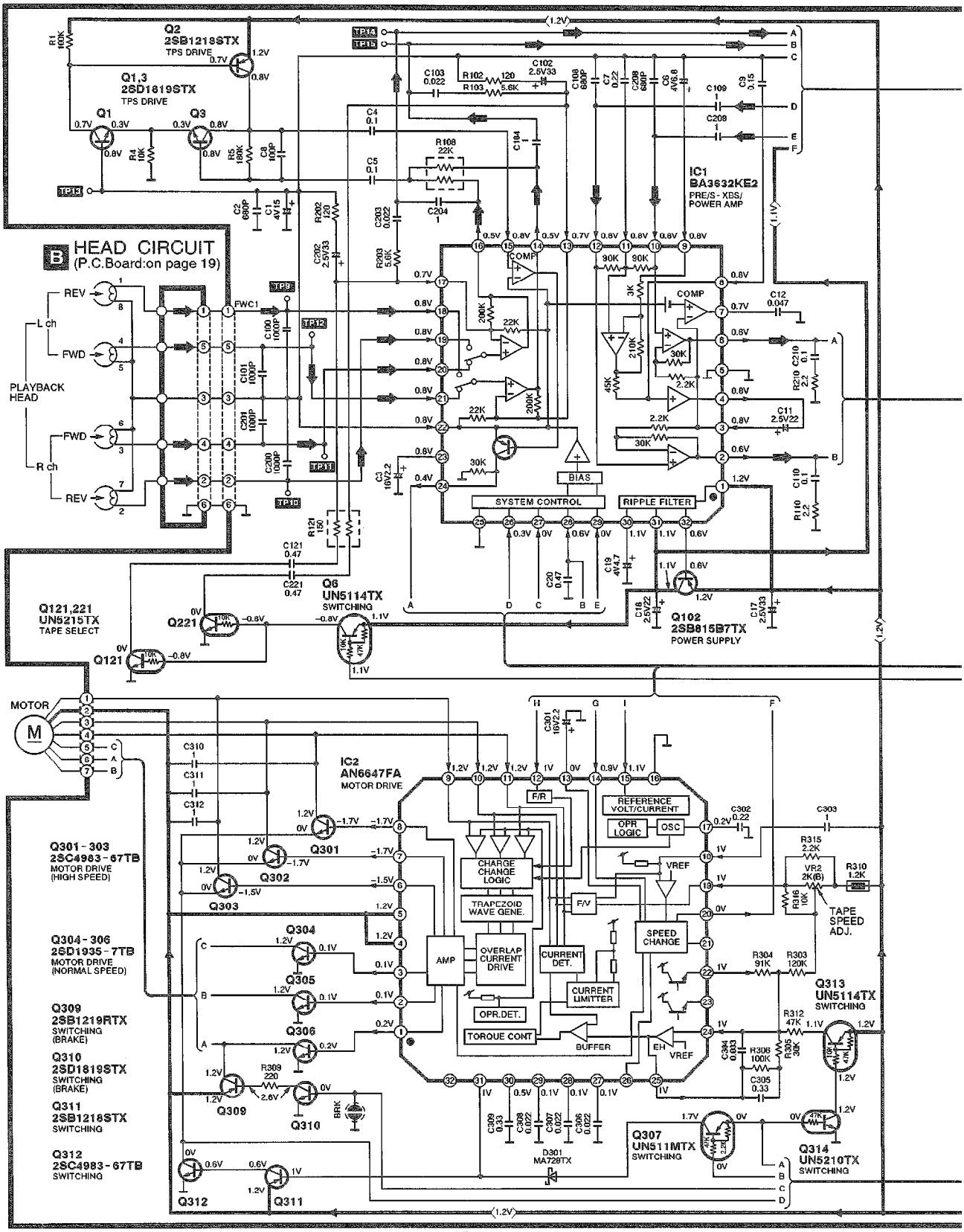
- S1 : FWD/REV detect switch in "FWD" position.
- S8-1 : Cassette half detect switch. (IN...ON, OUT...OFF)
- S8-2 : Tape select switch. (NORMAL...ON, METAL/CrO_2...OFF)
- S401 : Battery check switch.
- S402 : Tape A/B side detect switch. (Side B...ON, Side A...OFF)
- S601 : Stop switch. (■)
- S602 : REW switch. (REW)
- S603 : FF switch. (FF)
- S604 : Playback/direction (◀▶) switch.
- VR1 : Volume control VR. (VOLUME)
- VR2 : Tape speed adjustment VR.

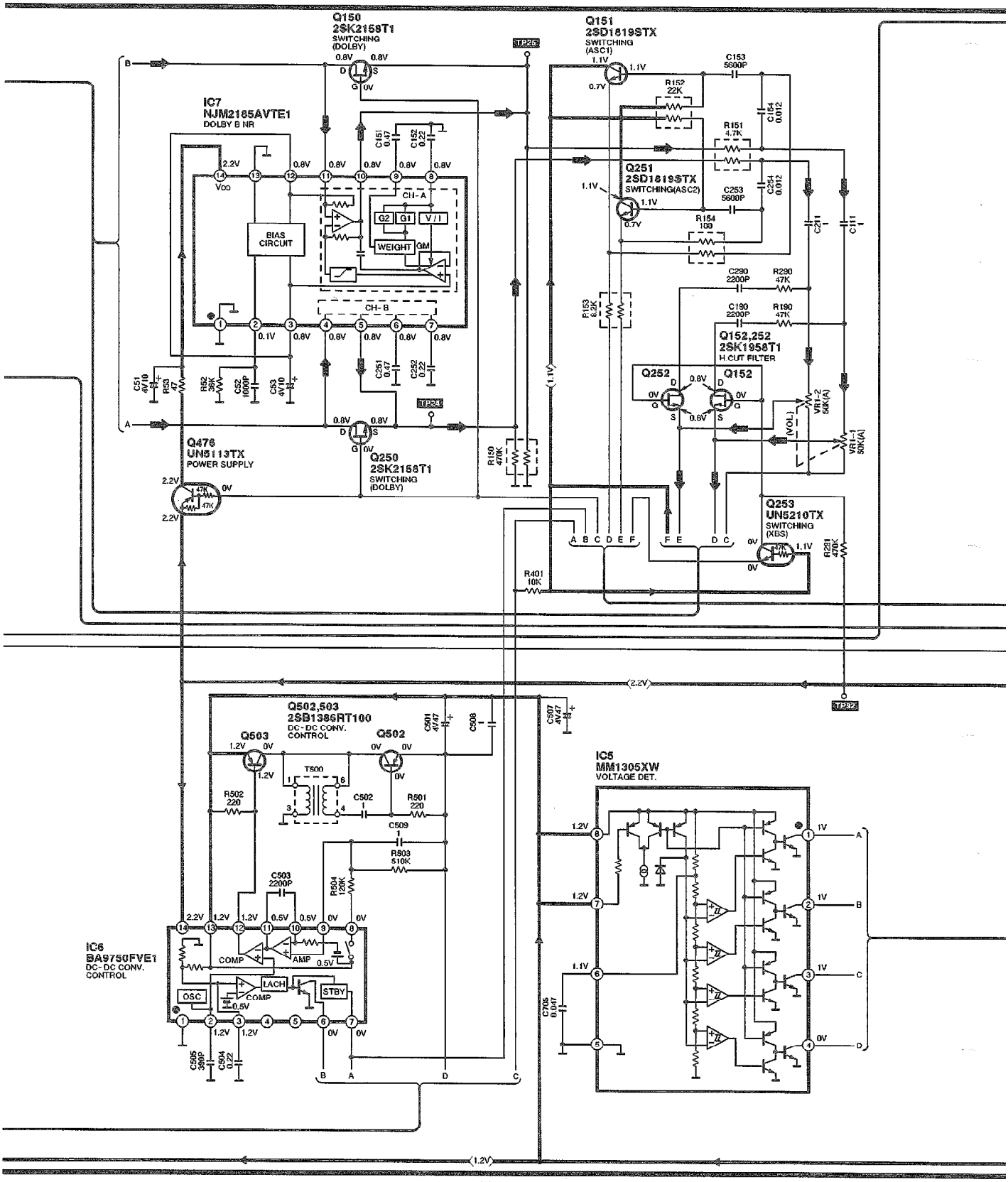
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
  No mark...Playback

- Current consumption of tape playback
  Volume VR MAX...46mA
  MIN...35mA

- Signal line
  ⟶ : +B line, ⟹ : Playback signal

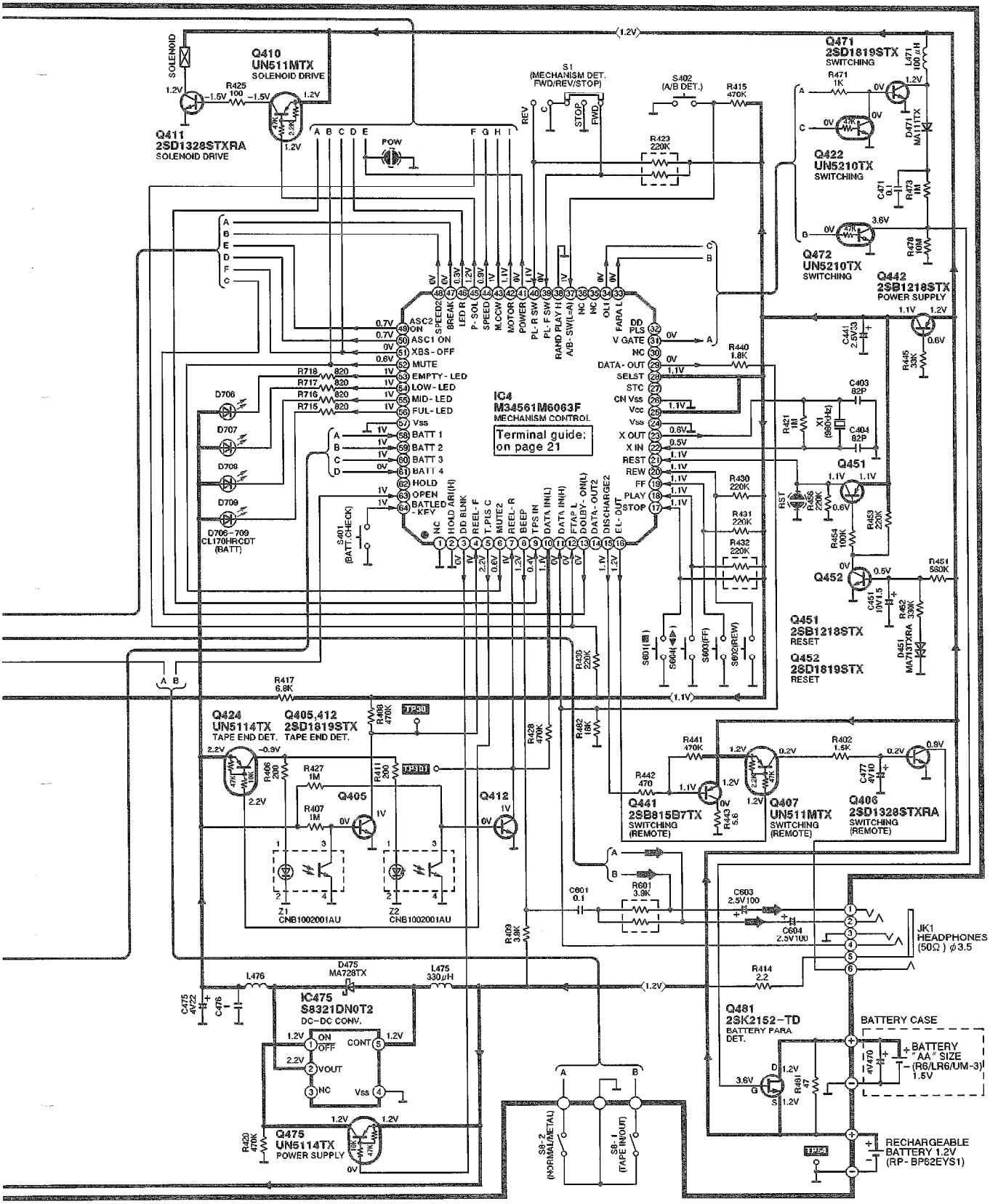
A MAIN CIRCUIT (P.C.Board:on pages 18,19)




Q150
2SK2158T1
SWITCHING
(DOLBY)
Q151
2SD1819STX
SWITCHING
(ASC1)
IC7
NJM2185AVTE1
DOLBY B NR
BIAS CIRCUIT
CH-A
CH-B
WEIGHT
Q251
2SD1819STX
SWITCHING(ASC2)
Q152,252
2SK1958T1
H CUT FILTER
Q252
Q152
Q476
UN5113TX
POWER SUPPLY
Q250
2SK2158T1
SWITCHING
(DOLBY)
Q253
UN5210TX
SWITCHING
(XBS)
Q502,503
2SB1386RT100
DC-DC CONV.
CONTROL
Q503
Q502
IC6
BA9750FVE1
DC-DC CONV.
CONTROL
IC5
MM1305XW
VOLTAGE DET.
COMP
AMP
LACH
STBY
OSC
TP25
TP24
TP92
(VOL.)
(2.2V)
(1.2V)

: +B line, : Playback signal

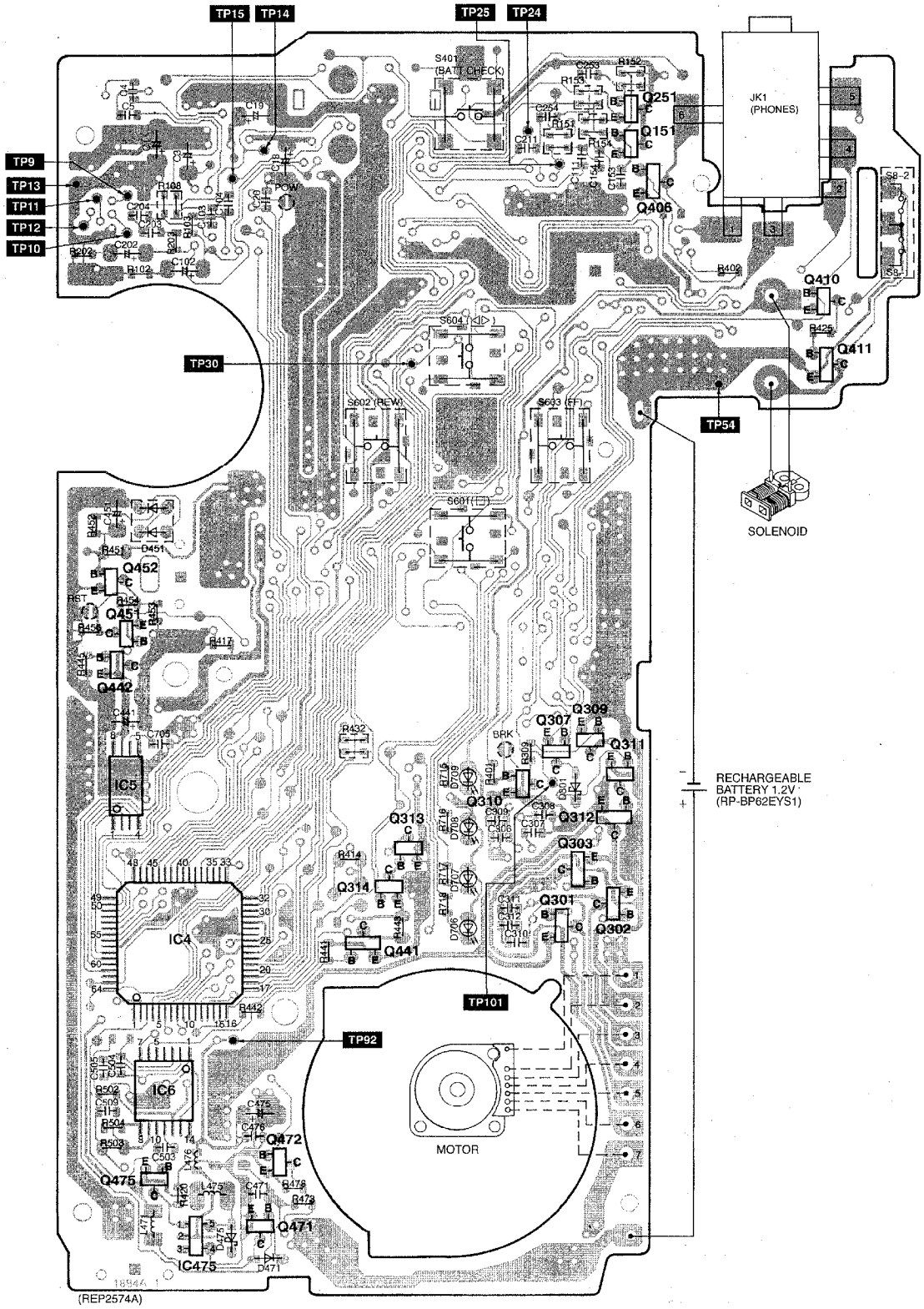
A MAIN CIRCUIT (P.C.Board:on pages 18,19)



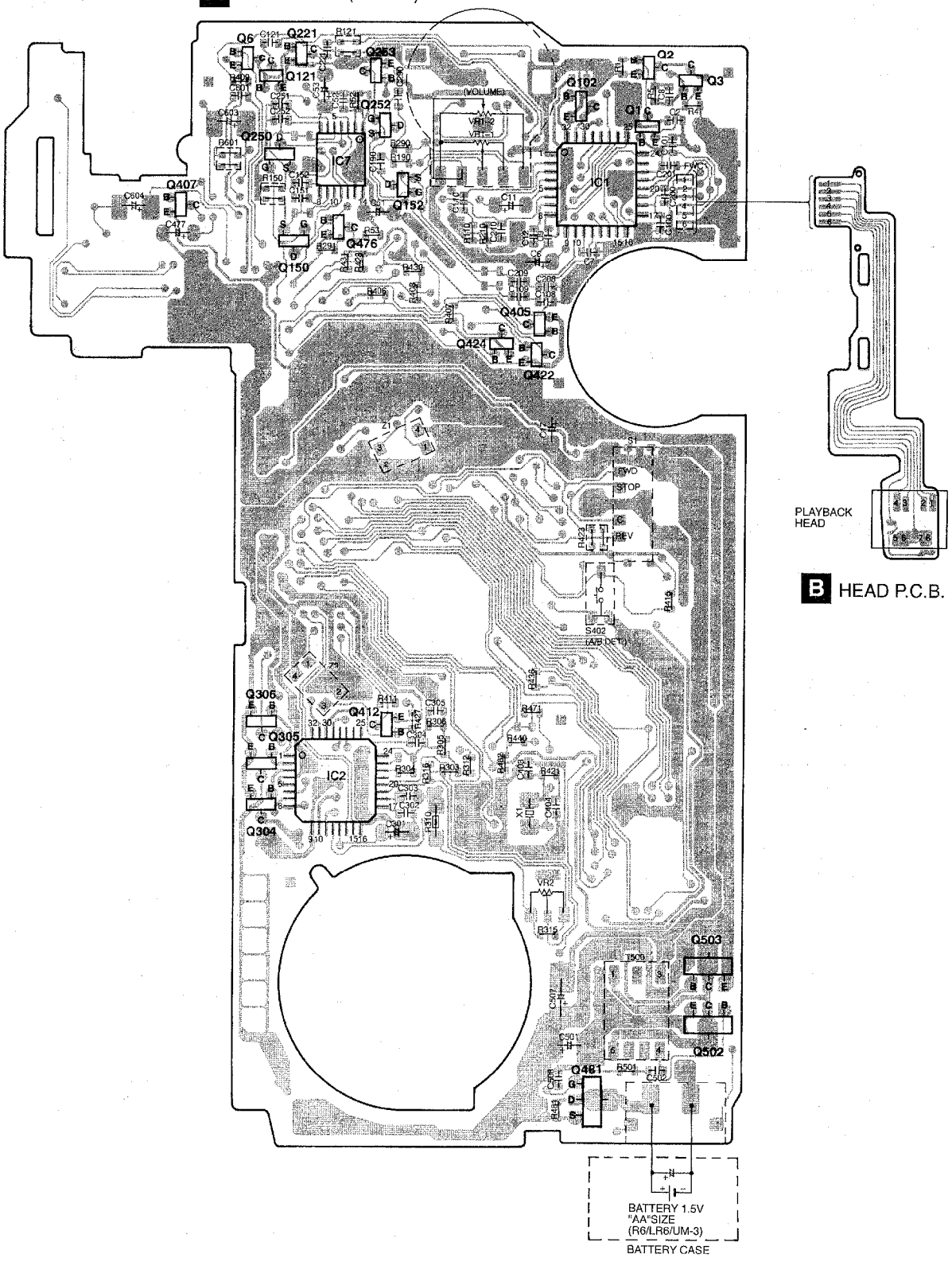
■ Printed Circuit Board Diagram

- This circuit board diagram may be modified at any time with the development of new technology.

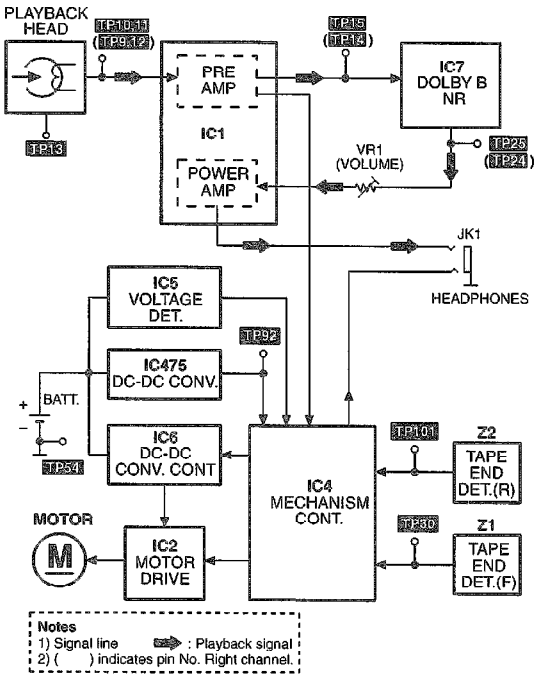
A MAIN P.C.B. (SIDE:A)



A MAIN P.C.B. (SIDE:B)



Block Diagram



Check Point of Signal

CHECK ITEM		TEST POINT
HEAD ↓ PRE AMP.	FWD Lch	TP12
	FWD Rch	TP11
	REV Lch	TP9
	REV Rch	TP10
	VREF	TP13
PRE OUT	Lch	TP15
	Rch	TP14
	GND	TP54
DOLBY OUT ↓ VOLUME VR	Lch	TP25
	Rch	TP24
	GND	TP54
POWER AMP.	Lch	HEADPHONES JACK
	Rch	HEADPHONES JACK
	GND	HEADPHONES JACK
DC CONVERTER	2.4V OUTPUT	TP92
	GND	TP54
PHOTO COUPLER	FWD PULSE	TP30
	REW PULSE	TP101
	GND	TP54

Measurements and Adjustments

Adjustment Instructions

READ CAREFULLY BEFORE ATTEMPTING ADJUSTMENTS	
1. Set volume control to maximum.	3. Release the hold state.
2. Set Dolby NR switch to OFF.	4. Set power source voltage to 1.5V DC.

Control Positions and Equipment Used

1. Frequency counter

Tape Section

ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
Tape speed adjustment	QZZCWAT (3 kHz, −10 dB)	Connect the frequency counter to headphones jack (50 Ω) (Refer to Fig.1)	VR2 (Refer to Fig.2)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. Forward: 3015 ± 15 Hz Reverse: 2975 ~ 3055 Hz Make sure that the frequency range in within ±60 Hz for between "Forward" and "Reverse" mode.

Note: The Playback head is supplied on the head arm assembly. (See the Mechanism parts Location)
The assembly requires no adjustment

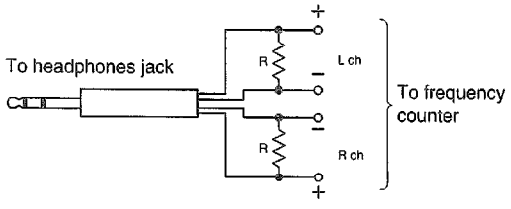


Fig. 1

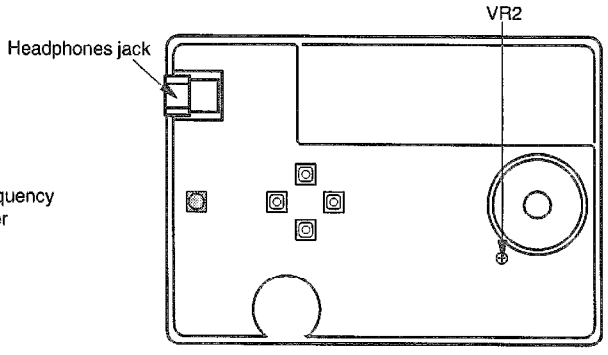


Fig. 2

■ Terminal Function of IC's

• IC4 (M34561M6063F) : Mechanism Control

Pin No.	Terminal Name	I/O	Function
1	NC	—	No used, open
2	HOLD ARI	—	No used, open
3	DD BLNK	O	Power control signal output (for DD conv.)
4	REEL-F	I	FWD reel pulse input
5	T.PLS C	O	Power control signal output (for photocoupler)
6	MUTE2	O	Muting control signal output
7	REEL-R	I	Reel pulse input
8	BEEP	O	Beep signal output
9	TPS IN	I	TPS control signal input
10	DATA IN(L)	—	No used, connected to Vcc
11	DATA IN(H)	I	Remote controller operation data signal input
12	FTAP L	I	Motor speed control signal input
13	DOLBY-ON(L)	O	Dolby NR on/off control signal output
14	DATA-OUT2	—	No used, open
15	DISCHARGE2	O	Dummy load terminal of discharge confirmation
16	EL-OUT	O	Power control signal output (for remote controller)
17	STOP	I	Stop switch signal input
18	PLAY	I	Play switch signal input
19	FF	I	FF switch signal input
20	REW	I	REW switch signal input
21	REST	I	Reset signal input
22	X IN	I	Crystal OSC terminal (960 kHz)
23	X OUT	O	
24	Vss	—	GND
25	Vcc	I	Power supply
26	CN Vss	—	GND
27	STC	—	No used, open
28	SELST	I	Internal reset circuit select terminal (Connected to Vcc)
29	DATA-OUT	O	Serial data output terminal of remote control operation
30	NC	—	No used, open

Pin No.	Terminal Name	I/O	Function
31	V GATE	O	Power control signal output
32	DD PLS	—	No used, open
33	PARA L	O	Power control signal output
34	OL1	O	Power control signal output
35, 36	NC	—	No used, open
37	A/B-SW	I	Tape A/B side detect signal input (L=A, H=B)
38	PL-F SW	—	No used, connected to GND
39	PL-F SW	I	FWD playback detect switch
40	PL-R SW	I	FWD playback detect switch
41	POWER	O	Power control signal output
42	MOTOR	O	Motor drive signal output
43	M.CCW	O	Motor control signal output
44	SPEED	O	Motor speed control signal output
45	P-SOL	O	Solenoid drive signal output
46	LED R	O	Head switching signal output
47	BREAK	O	Motor brake signal output
48	SPEED2	O	Motor speed control signal output
49	ASC2 ON	O	ASC EQ. control signal output
50	ASC1 ON		
51	XBS-OFF	O	S-XBS control signal output
52	MUTE	O	Muting control signal output
53	EMPTY-LED	O	LED drive signal output
54	LOW-LED		
55	MID-LED		
56	FUL-LED		
57	Vss	—	GND
58~61	BATT1 ~ 4	I	Battery condition signal input
62	HOLD	—	No used, open
63	OPEN	I	Cassette tape insert signal input (L=Tape is inserted, H=Tape is not inserted)
64	BATLED-KEY	I	Battery check switch signal input

Replacement Parts List

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*All parts are supplied by MESA.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHQ0002-S	SCREW	4	
2	RHQ0041-S	SCREW	2	
3	RKK0109-N	BATTERY COVER	1	<N>
3	RKK0109-S	BATTERY COVER	1	<S>
4	RMR1125-S	JACK PIECE	1	
5	RYF0454A-N	CASSETTE LID ASS'Y	1	<N>
5	RYF0454A-S	CASSETTE LID ASS'Y	1	<S>
5-1	RHQ0062-S	SCREW	4	
5-2	RYQ0216-A	CENTER ORNAMENT UNIT	1	<S>
5-2	RYQ0216-S	CENTER ORNAMINT UNIT	1	<N>
5-2A	RGK0946-A	CENTER ORNAMENT	1	<S>
5-2A	RGK0946-S	CENTER ORNAMENT	1	<N>
5-2B	RGK0947-A	CENTER ORNAMENT	1	<S>
5-2B	RGK0947-S	CENTER ORNAMENT	1	<N>
5-2C	RGK0948-A	CENTER ORNAMENT	1	<S>
5-2C	RGK0948-S	CENTER ORNAMENT	1	<N>
5-2D	RGV0197-S	KNOB.EJECT	1	
5-2E	RHQ0060-K	SCREW	2	
5-2F	RHW22002	WASHER	1	
5-2G	RMA0890	SLIDER LEVER	1	
5-2H	RMB0442-2	SPRING	1	
5-2I	RMZ0412-1	SHEET	1	
5-2J	RXQ0510	BUCKLE UNIT	1	
5-3	RMA0976	LINK ANGLE(R)	1	
5-4	RXM0059	LINK UNIT(L)	1	
6	XQN14+BC4FZ	SCREW	2	
7	RYK0765-N	CABINET ASS'Y	1	<N>
7	RYK0765-S	CABINET ASS'Y	1	<S>
8	RHQ0060-N	SCREW	5	
9	RHQ0013-1	SCREW	1	
10	RJC99027	R.BATTERY TERMINAL(+)	1	
11	RJC99028	R.BATTERY TERMINAL(-)	1	
12	RJR0154-1	R.BATTERY SHAFT	1	
13	RJH9208-1	CONNECTION TERMINAL(S1)	1	
101	BFL26NB1CT	MOTOR	1	
102	XQS14+A2FZ	SCREW	2	
103	RHW40002	WASHER	1	
104	RDV0037	CAPSTAN BELT(1)	1	
105	RDV0038	CAPSTAN BELT(2)	1	
106	RXQ0445-4	HEAD BLOCK ASS'Y	1	
106A	RXL0130	PINCH ROLLER ARM(F)	1	
106B	RME0187-1	SCREW	1	
106C	RXL0131	PINCH ROLLER ARM(R)	1	
107	RHD14047	SCREW	2	
107A	RMQ0547-1	HOLD PIESE(F)	1	
107B	RFKRQSX75-S	MECHANISM ASS'Y	1	
107C	RMQ0548-1	HOLD PIESE(R)	1	
A1	RP-BP62EYS1	RECHARGEABLE BAATERY	1	
A1-1	RFA0475-Q	R.BATTERY CARRYING CASE	1	
A2	RFA0617-H	DRY CELL BATTERY CASE	1	
A2-1	RKK0071-H	DRY CELL BATTERY COVER	1	
A3	RFC0043A-K	CARRYING BAG	1	
A4	RFEV009P-KS	REMOTE CONTROLLER	1	
A5	RFEV319P-KA	STEREO EARPHONES	1	
⚠ A6	RP-BC155AEBY	CHARGER	1	(EB)
⚠ A6	RP-BC155AEYA	CHARGER	1	(E)
A7	RQT4315-E	INSTRUCTION MANUAL	1	
A8	RKB205ZB-0	EAR PADS	1	
C1	RCSX0GY156RE	4V 15U	1	
C2	ECUV1H681KBV	50V 680P	1	
C3	RCST1CY225RG	16V 2.2U	1	
C4,C5	ECUVNC104ZFV	16V 0.1U	2	
C6	RCST0GY685RG	4V 6.8U	1	
C7	ECUV1A224KBV	10V 0.22U	1	
C8	ECUV1H101JCV	50V 100P	1	
C9	ECUV1A154KBV	10V 0.15U	1	
C11	RCSX0EY226RE	2.5V 22U	1	
C12	ECUVNC473KBV	16V 0.047U	1	
C17	ECST0EY336RR	2.5V 33U	1	
C18	RCSX0EY226RE	2.5V 22U	1	
C19	RCST0GY475RG	4V 4.7U	1	
C20	ECUV1A474ZFV	10V 0.47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C51	RCSX0GY106RE	4V 10U	1	
C52	ECUV1H102KBV	50V 1000P	1	
C53	RCSX0GY106RE	4V 10U	1	
C100,01	ECUV1H102KBV	50V 1000P	2	
C102	RCST0EY336RG	2.5V 33U	1	
C103	ECUV1C223KBV	16V 0.022U	1	
C104	ECUV0J105ZFV	6.3V 1U	1	
C108	ECUV1H681KBV	50V 680P	1	
C109	ECUV0J105ZFV	6.3V 1U	1	
C110	ECUV1C104KBV	16V 0.1U	1	
C111	ECUV0J105ZFV	6.3V 1U	1	
C121	ECUV0J474KBV	6.3V 0.47U	1	
C151	ECUV0J474KBV	6.3V 0.47U	1	
C152	ECUV1A224KBV	10V 0.22U	1	
C153	ECUVNH562KBV	50V 5600P	1	
C154	ECUV1H123KBV	50V 0.012U	1	
C190	ECUV1H222KBV	50V 2200P	1	
C200,01	ECUV1H102KBV	50V 1000P	2	
C202	RCST0EY336RG	2.5V 33U	1	
C203	ECUV1C223KBV	16V 0.022U	1	
C204	ECUV0J105ZFV	6.3V 1U	1	
C208	ECUV1H681KBV	50V 680P	1	
C209	ECUV0J105ZFV	6.3V 1U	1	
C210	ECUV1C104KBV	16V 0.1U	1	
C211	ECUV0J105ZFV	6.3V 1U	1	
C221	ECUV0J474KBV	6.3V 0.47U	1	
C251	ECUV0J474KBV	6.3V 0.47U	1	
C252	ECUV1A224KBV	10V 0.22U	1	
C253	ECUVNH562KBV	50V 5600P	1	
C254	ECUV1H123KBV	50V 0.012U	1	
C290	ECUV1H222KBV	50V 2200P	1	
C301	RCST1CY225RG	16V 2.2U	1	
C302	ECUV1A224KBV	10V 0.22U	1	
C303	ECUVNA105KBN	10V 1U	1	
C304	ECUV1C333KBV	16V 0.033U	1	
C305	ECUV0J334KBV	6.3V 0.33U	1	
C306-08	ECUV1C223KBV	16V 0.022U	3	
C309	ECUV0J334KBV	16V 0.33U	1	
C310-12	ECUV0J105ZFV	6.3V 1U	3	
C403,04	ECUV1H820JCV	50V 82P	2	
C441	RCST0EY336RG	2.5V 33U	1	
C451	RCST1AY155RE	10V 1.5U	1	
C471	ECUVNH104ZFN	50V 0.1U	1	
C475	ECST0GY226RR	4V 22U	1	
C476	ECUV0J105ZFV	6.3V 1U	1	
C477	RCSX0GY106RE	4V 10U	1	
C501	ECST0GX476RR	4V 47U	1	
C502	ECUV0J105ZFV	6.3V 1U	1	
C503	ECUV1H222KBV	50V 2200P	1	
C504	ECUV1A224KBV	10V 0.22U	1	
C505	ECUV1H391KBV	50V 390P	1	
C507	ECST0GX476RR	4V 47U	1	
C508,09	ECUV0J105ZFV	6.3V 1U	2	
C601	ECUVNC104ZFV	16V 0.1U	1	
C603,04	ECST0EX107RR	2.5V 100U	2	
C705	ECUVNC473KBV	16V 0.047U	1	
D301	MA728TX	DIODE	1	
D451	MA713TXRA	DIODE	1	
D471	MA111TX	DIODE	1	
D475	MA728TX	DIODE	1	
D706-09	CL170HRCDT	LED	4	
FWC1	RJS2A1606T	FPC CONNECTER	1	
IC1	BA3632KE2	I.C	1	
IC2	AN6647FA	I.C	1	
IC4	M34561M6063F	I.C	1	
IC5	MM1305XW	I.C	1	
IC6	BA9750FVE1	I.C	1	
IC7	NJM2185AVTE1	I.C	1	
IC475	S8321DNQT2	I.C	1	
JK1	RJJ36TK03-1C	HEADPHONES JACK	1	

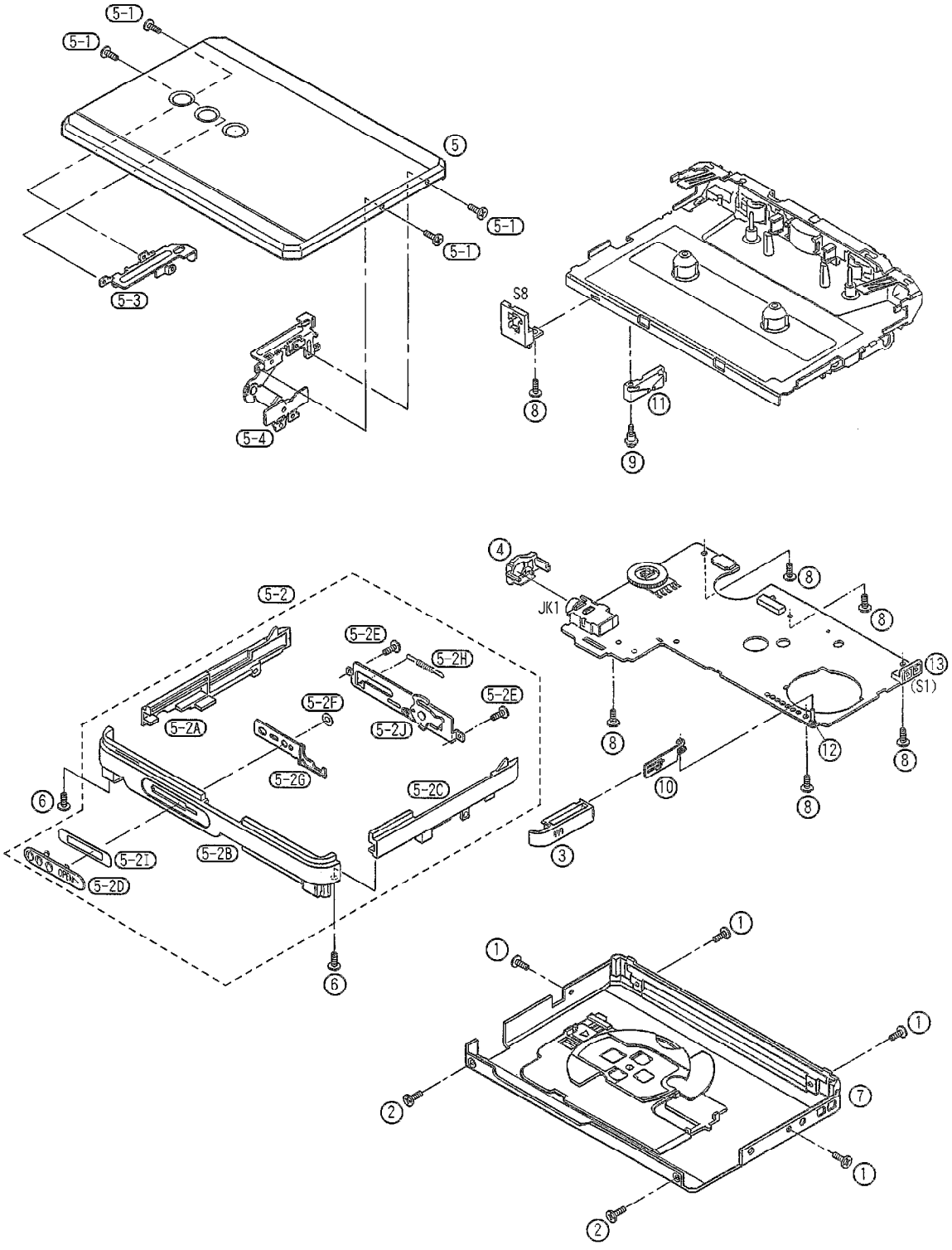
Notes :

1. <N>...For Gold Type <S>...For Silver Type
2. (A8) This item is not attached merchandise, but it is supplied as a replacement parts.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L471	ELJFC101KF	COIL	1	
L475	RLQU331KT-W	COIL	1	
L476	RLBV182DV-Y	COIL	1	
P1	RPK1033	PACKING CASE	1	<S>
P1	RPK1070	PACKING CASE	1	<N>
P2	RPQ0581-1	SPACER 1	1	
P3	RPQ0575	SPACER 2	1	
PCB1	REP2574A	P.C.B ASS'Y	1	
Q1	2SD1819STX	TRANSISTOR	1	
Q2	2SB1218STX	TRANSISTOR	1	
Q3	2SD1819STX	TRANSISTOR	1	
Q6	UN5114TX	TRANSISTOR	1	
Q102	2SB815B7TX	TRANSISTOR	1	
Q121	UN5215TX	TRANSISTOR	1	
Q150	2SK2158T1	TRANSISTOR	1	
Q151	2SD1819STX	TRANSISTOR	1	
Q152	2SK1958T1	TRANSISTOR	1	
Q221	UN5215TX	TRANSISTOR	1	
Q250	2SK2158T1	TRANSISTOR	1	
Q251	2SD1819STX	TRANSISTOR	1	
Q252	2SK1958T1	TRANSISTOR	1	
Q253	UN5210TX	TRANSISTOR	1	
Q301-03	2SC4983-67TB	TRANSISTOR	3	
Q304-06	2SD1935-7TB	TRANSISTOR	3	
Q307	UN511MTX	TRANSISTOR	1	
Q309	2SB1219RTX	TRANSISTOR	1	
Q310	2SD1819STX	TRANSISTOR	1	
Q311	2SB1218STX	TRANSISTOR	1	
Q312	2SC4983-67TB	TRANSISTOR	1	
Q313	UN5114TX	TRANSISTOR	1	
Q314	UN5210TX	TRANSISTOR	1	
Q405	2SD1819STX	TRANSISTOR	1	
Q406	2SD1328STXRA	TRANSISTOR	1	
Q407	UN511MTX	TRANSISTOR	1	
Q410	UN511MTX	TRANSISTOR	1	
Q411	2SD1328STXRA	TRANSISTOR	1	
Q412	2SD1819STX	TRANSISTOR	1	
Q422	UN5210TX	TRANSISTOR	1	
Q424	UN5114TX	TRANSISTOR	1	
Q441	2SB815B7TX	TRANSISTOR	1	
Q442	2SB1218STX	TRANSISTOR	1	
Q451	2SB1218STX	TRANSISTOR	1	
Q452	2SD1819STX	TRANSISTOR	1	
Q471	2SD1819STX	TRANSISTOR	1	
Q472	UN5210TX	TRANSISTOR	1	
Q475	UN5114TX	TRANSISTOR	1	
Q476	UN5113TX	TRANSISTOR	1	
Q481	2SK2152-TD	TRANSISTOR	1	
Q502,03	2SB1386RT100	TRANSISTOR	2	
R1	ERJ3GEYJ104V	1/16W 100K	1	
R4	ERJ3GEYJ103V	1/16W 10K	1	
R5	ERJ3GEYJ184V	1/8W 180K	1	
R52	ERJ3GEYD363V	1/16W 36K	1	
R53	ERJ3GEYJ470V	1/16W 47	1	
R102	ERJ3GEYJ121V	1/16W 120	1	
R103	ERJ3GEYJ562V	1/16W 5.6K	1	
R108	EXBV4V223JV	22K	1	
R110	ERJ3GEYJ2R2V	1/16W 2.2	1	
R121	EXBV4V151JV	150	1	
R150	EXBV4V474JV	470K	1	
R151	EXBV4V472JV	4.7K	1	
R152	EXBV4V223JV	22K	1	
R153	EXBV4V822JV	8.2K	1	
R154	EXBV4V101JV	100	1	
R190	ERJ3GEYJ473V	1/16W 47K	1	
R202	ERJ3GEYJ121V	1/16W 120	1	
R203	ERJ3GEYJ562V	1/16W 5.6K	1	
R210	ERJ3GEYJ2R2V	1/16W 2.2	1	
R290	ERJ3GEYJ473V	1/16W 47K	1	
R291	ERJ3GEYJ474V	1/16W 470K	1	
R303	ERJ3GEYJ124V	1/16W 120K	1	

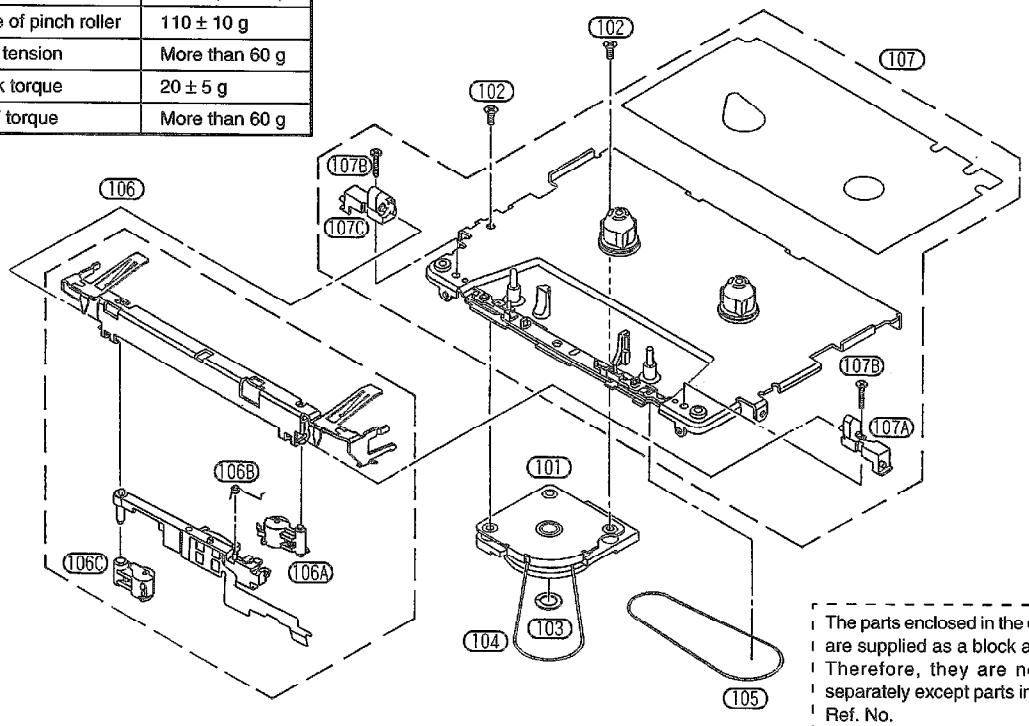
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R304	ERJ3GEYG913V	1/16W 91K	1	
R305	ERJ3GEYJ303V	1/16W 30K	1	
R306	ERJ3GEYJ104V	1/16W 100K	1	
R309	ERJ3GEYJ221V	1/16W 220	1	
R310	RRSL41J122U	1.2K	1	
R312	ERJ3GEYJ473V	1/16W 47K	1	
R315	ERJ3GEYJ222V	1/16W 2.2K	1	
R316	ERJ3GEYJ103V	1/16W 10K	1	
R401	ERJ3GEYJ103V	1/16W 10K	1	
R402	ERJ3GEYJ152V	1/16W 1.5K	1	
R406	ERJ3GEYJ201V	1/16W 200	1	
R407	ERJ3GEYJ105V	1/16W 1M	1	
R408	ERJ3GEYJ474V	1/16W 470K	1	
R409	ERJ3GEYJ392V	1/16W 3.9K	1	
R411	ERJ3GEYJ201V	1/16W 200	1	
R414	ERJ6GEYJ2R2V	1/16W 2.2	1	
R415	ERJ3GEYJ474V	1/16W 470K	1	
R417	ERJ3GEYJ682V	1/16W 6.8K	1	
R420	ERJ3GEYJ474V	1/16W 470K	1	
R421	ERJ3GEYJ105V	1/16W 1M	1	
R423	EXBV4V224JV	220K	1	
R425	ERJ3GEYJ101V	1/16W 100	1	
R427	ERJ3GEYJ105V	1/16W 1M	1	
R428	ERJ3GEYJ474V	1/16W 470K	1	
R430,31	ERJ3GEYJ224V	1/16W 220K	2	
R432	EXBV4V224JV	1/16W 220K	1	
R436	ERJ3GEYJ224V	1/16W 220K	1	
R440	ERJ3GEYJ182V	1/16W 1.8K	1	
R441	ERJ3GEYJ474V	1/16W 470K	1	
R442	ERJ3GEYJ471V	1/16W 470	1	
R443	ERJ6GEYJ5R6V	1/8W 5.6	1	
R445	ERJ3GEYJ333V	1/8W 33K	1	
R451	ERJ6GEYF564V	1/8W 560K	1	
R452	ERJ3GEYD334V	1/8W 330K	1	
R453	ERJ3GEYJ224V	1/8W 220K	1	
R454	ERJ3GEYJ104V	1/8W 100K	1	
R456	ERJ3GEYJ224V	1/8W 220K	1	
R471	ERJ3GEYJ102V	1/8W 1K	1	
R473	ERJ3GEYJ105V	1/8W 1M	1	
R478	ERJ3GEYJ106V	1/8W 10M	1	
R481	ERJ3GEYJ470V	1/8W 47	1	
R482	ERJ3GEYJ183V	1/8W 18K	1	
R501,02	ERJ3GEYJ221V	1/8W 220	2	
R503	ERJ6GEYD514V	1/8W 510K	1	
R504	ERJ3GEYD124V	1/16W 120K	1	
R601	EXBV4V392JV	3.9K	1	
R715-18	ERJ3GEYJ821V	1/16W 820	4	
S1	RSS2A012-1A	SW	1	
S8	RSH1B011-1U	SW	1	
S401	RSG0038-P	SW	1	
S402	RSH1A040-A	SW	1	
S601-04	EVQPLMA15	SW	4	
T500	RL09U023T-M	TRANSFORMER	1	
VR1	EVUTUGB15A54	V.R	1	
VR2	EVM1GSX10B23	V.R	1	
X1	RSXZ960KF01T	OSCILLATOR	1	
Z1,2	CNB1002001AU	PHOTO SENSOR	2	

■ Cabinet Parts Location



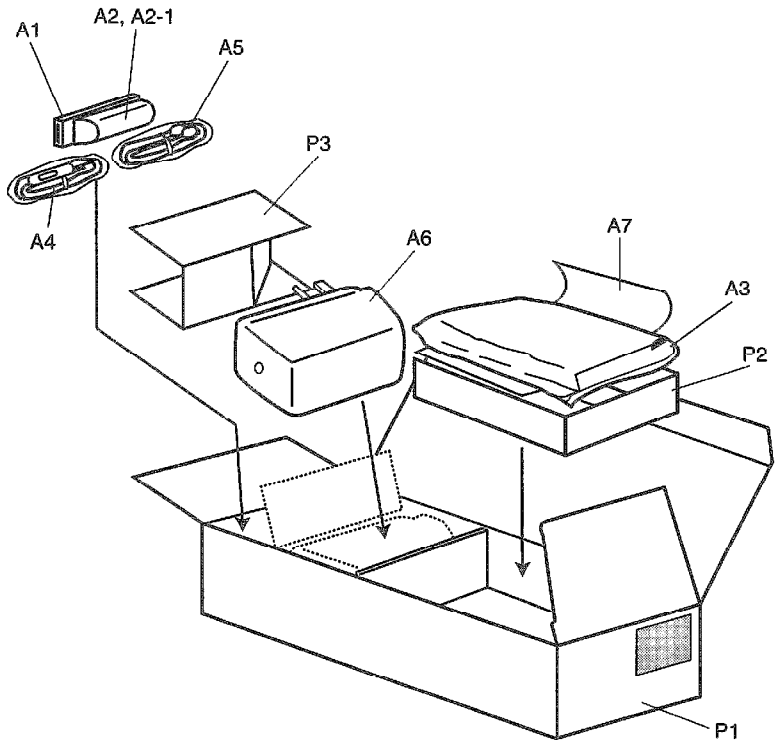
■ Mechanism Parts Location

Wow and flutter	0.3 % (WRMS)
Pressure of pinch roller	110 ± 10 g
Take-up tension	More than 60 g
Playback torque	20 ± 5 g
FF/REW torque	More than 60 g



The parts enclosed in the dotted boxes are supplied as a block assembly. Therefore, they are not supplied separately except parts indicated with Ref. No.

■ Packaging

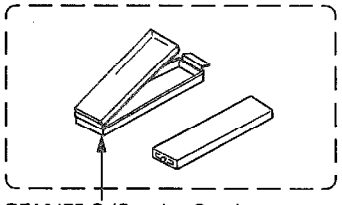


■ Supply of Rechargeable Battery as Replacement Parts

Please take note of the following points relating to Carrying Case to be used for protection of Rechargeable Battery from shorting.
Replacement Parts :

- Rechargeable Battery (RP-BP62EYS1) to be supplied will be provided with Carrying Case (RFA0475-Q) .
- No replacement parts will be supplied for Rechargeable Battery without Carrying Case.
- Replacement parts will be supplied for Carrying Case (RFA0475-Q) without Rechargeable Battery.
- To your customers, delivery Rechargeable Battery together with Carrying Case to prevent shorting accidents that may occur when Rechargeable Battery is carried about without Carrying Case.

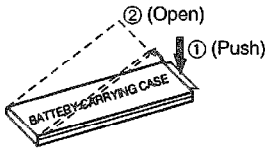
RP-BP62EYS1
(Rechargeable Battery with Carrying Case)



RFA0475-Q (Carrying Case)

■ Caution in Use of Rechargeable Battery

- Take Rechargeable Battery out of Carrying Case and use it.
- Be sure to carry Rechargeable Battery in this Carrying Case. If not, may either heat or ignite by shorting with a metal.



Printed in Japan
F980207800HS/KH